Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

Message Text

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ACTION OES-07

INFO OCT-01 EA-12 ISO-00 FEA-01 ERDA-07 ACDA-10
CIAE-00 INR-07 IO-14 L-03 NSAE-00 NSC-05 EB-08
NRC-07 DODE-00 SS-15 SP-02 /099 W
----------094497 190603Z /14
R 190533Z AUG 77
FM AMEMBASSY TOKYO
TO ERDA GERMANTOWN
ERDA WASHDC
INFO SECSTATE WASHDC 0318

UNCLAS TOKYO 12633

ERDA FOR MCDONOUGH

E.O. 11652: N/A
TAGS: TECH, JA
SUBJECT: EPDC-AECL CANDU STUDY

REF: ERDA 0483

1. EMBASSY CONTACTED EPDC TO INQUIRE AS TO AVAILABILITY REPORT ON CANDU REDESIGN FOR USE IN JAPAN. EPDC RELUCTANT TO MAKE REPORT AVAILABLE, BUT PROVIDED EMBASSY WITH FOLLOWING INFORMATION:

2. AN EPDC-AECL CANDU STUDY IS BEING CONDUCTED ON THE STANDARDIZED CANDU-PHW 600. THE FIRST OF THESE CANDUS IS BEING BUILT BY HYDRO-QUEBEC AT A SITE NEAR MONTREAL. AECL HAS CONTRACTED TO SELL THE SAME REACTOR TO ARGENTINA AND KOREA. EPDC, RECOGNIZING THAT CERTAIN MODIFICATIONS OR ADAPTATIONS WOULD BE REQUIRED TO SATISFY JAPAN'S SEISMIC AND SAFETY REQUIREMENTS, BEGAN A THREE-PHASED PROGRAM IN FEBRUARY, 1976.

3. PHASE 1 WAS A FOUR MONTH JOINT (EPDC-AECL)
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EFFORT (2/76 TO 6/76) TO IDENTIFY THE PROBLEM AREAS.

4. PHASE 2, 10/76 TO 5/77, WAS A MORE IN-DEPTH EVALUATION OF THE SIGNIFICANCE OF THE PROBLEMS IDENTIFIED IN PHASE 1 AND A ROUGH IDENTIFICATION OF WHICH PARTS OF THE SYSTEM WOULD HAVE TO BE MODIFIED.

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5. PHASE 3, WHICH WAS INITIALLY PLANNED FOR START 10/77, BUT WILL PROBABLY NOT BEGIN UNTIL 4/78, AND WILL LAST ONE AND ONE HALF TO TWO YEARS, IS THE CONCEPTUAL DESIGN PHASE. THIS MAY INCLUDE FINAL OR DETAILED DESIGN FOR WHICH INPUT WOULD BE PROVIDED FROM A FAIRLY BROAD IN-HOUSE TESTING AND ANALYSIS PROGRAM EPDC IS CONDUCTING. A LARGE PORTION OF THIS PROGRAM IS DEVOTED TO LOCA, SINCE EPDC BELIEVES AECL IS WEAK IN THAT AREA. PRESSURE TUBE TESTING AND SELECTION OF THE PREFERRED ECCS CONCEPT ARE THE MAJOR AREAS RECEIVING ATTENTION, PRESSURE TUBE DESIGN BEING A CRITICAL PARAMETER SINCE A SEVERE PENALTY IN NEUTRON ECONOMY IS EXPERIENCED BY A RELATIVELY SMALL INCREASE IN TUBE THICKNESS.

6. IF ERDA DESIRES, EMBASSY WILL STAY IN TOUCH WITH SITUATION AND KEEP ERDA HQ INFORMED. APPARENTLY DELAY IN START PHASE 3 DUE TO NECESSITY FOR BILATERAL WHICH HAS NOT YET BEEN CONCLUDED.
MANSFIELD

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NUCLEAR REACTORS, STUDIES
Control Number: n/a
Copy: SINGLE
Sent Date: 19-Aug-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01-Jan-1960 12:00:00 am
Disposition Event:
Disposition History: n/a
Disposition Reason:
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Drafter: n/a
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Executive Order: N/A
Errors: N/A
Expiration:
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From: TOKYO
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Original Previous Handling Restrictions: n/a
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Review Release Date: n/a
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SAS ID: 1543122
Secure: OPEN
Status: NATIVE
Subject: EPDC-AECL CANDU STUDY
TAGS: TECH, JA
To: ERDA
Type: TE
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